

akasa

# integral

HDD external enclosure

for data-storage mobility with LAN sharing



LAN

MAC  
USER Manual

# English

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## **FCC Compliance Statement**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

## **FCC Warning Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can emit radio frequency energy and, if not installed or used in accordance with the instructions, may cause interference to radio communications. However, television reception interference can be determined by turning the equipment off and on. The user is encouraged to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

## **CAUTION**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



## Introduction

Congratulations on your purchase of the INTEGRAL LAN 3.5" hard disk enclosure. This User Manual is intended to help you install the INTEGRAL LAN drive quickly and easily onto your Personal Computer or Ethernet Network and begin using it immediately. INTEGRAL LAN drives are the perfect solution to your network storage needs. Share documents, music, videos, and pictures with your family or co-workers through your network. Simply connect the drive to your network, install our easy to use software and you're up and running. Say goodbye to confusing network setups and configurations. With its Key Code security features, your data is kept private from unauthorized access.

The INTEGRAL LAN works in both network mode as well as a standalone USB mode. Take advantage of the ultra fast USB 2.0 transfer rates by connecting the INTEGRAL LAN directly to your MAC's USB 2.0 port. With its portability, ease of use, high performance, and extra capacity, the INTEGRAL LAN has you covered.

## Package Contents

- INTEGRAL LAN enclosure
- USER Manual
- Software & Driver CD
- Power Adapter
- USB & Ethernet Cables
- Footstand

## System Requirement

- Mac OS X 10.3 or greater
- 128 MB RAM (256 MB recommended)
- USB 1.1 Port (USB 2.0 recommended)
- CD-ROM drive for installation
- 100Base-T full duplex switch for NDAS mode

## Features

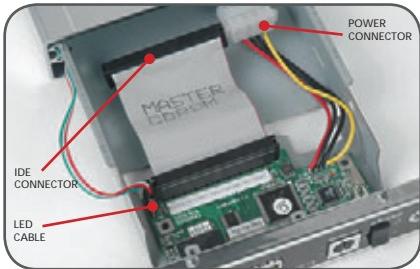
- Support 3.5" IDE HDD (PATA)
- Shared network direct attached storage (NDAS) for your home or office
- Easy setup and installation
- Sleek & portable design
- USB 2.0 (USB 1.1 backwards compatible)
- Key Code security protection
- Driver supports OS X 10.3 or greater (Network Mode)
- OS 8.6 or later (USB Mode)
- Data transfer rates of:
  - | Network mode: 100Mbit/sec
  - | USB mode: 480Mbit/second

# Harddisk Installation

## 1.

Open the back of the enclosure by undoing the securing screws and sliding the tray out of the aluminium housing.

**NOTE:** Disconnect the LED cable before completely sliding it out.



## 3.

Place the HDD in the tray aligning the IDE and power connectors. Connect the IDE and power connectors to the HDD.



## 2.

Write down the ID number and WRITE KEY before closing the enclosure. It will be needed in later stages of the network installation.



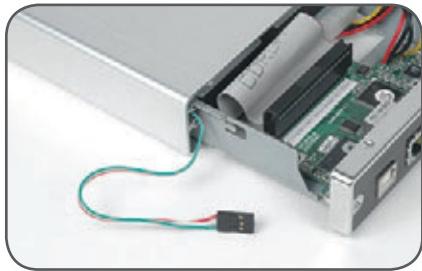
## 4.

Position the HDD in the tray so that the mounting holes on the HDD line up with the tray mounting holes. Use the four mounting screws to secure the HDD in the tray.



**5.**

Gently insert the tray into the enclosure aligning the guide rail with the grooves of the enclosure housing.

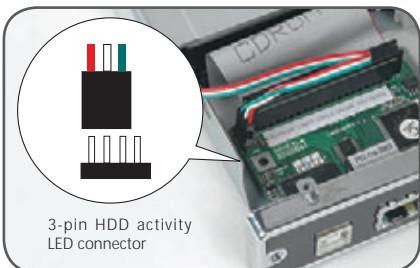
**7.**

Insert the tray completely into the housing and secure the tray face plate to the enclosure using the screws provided.

**6.**

Before fully inserting the tray, connect the 3-pin HDD activity LED connector to the 4-pin connector as shown below.

**NOTE:** The integral logo on the front bezel serves two operational purposes: indicates power and hard drive activity.

**8.**

Connect the round end of the DC power cord to the back of the enclosure, making sure it is correctly aligned. Plug the AC cable into the power pack, and then connect the supplied adapter into an available AC socket.

**NOTE:** please ensure you are using the supplied power pack only.



# USB Mode Connection

## Hardware installation

1. Connect your INTEGRAL LAN to the computer using the supplied USB cable
2. Switch on the power and your INTEGRAL LAN is ready to use.

***CAUTION! Do not connect USB cable and Ethernet cable at the same time.***



## Software installation

Mac OS 8.6

If you are using Mac OS 8.6, the software of Mass Storage Support 1.3.5 is required for installation. You can download The USB Mass Storage Support 1.3.5 from the Apple Software Updates web site [Http://www.apple.com/support](http://www.apple.com/support) .

Mac OS9.0 or later

You don't need to install this software if you have installed Mac OS 9.0 or above.

When you connect the INTEGRAL LAN into the USB port of the Mac computer, the mass storage volume should appear on the desktop in a few seconds automatically.

## Using the INTEGRAL LAN Device

After the first installation, you can connect or disconnect the INTEGRAL LAN device without powering off the computer, please follow the steps when you want to do the above actions

### Connecting the INTEGRAL LAN device

1. Connect one end (type B) of the USB cable into the USB port of your INTEGRAL LAN enclosure.
2. Connect the other end of the USB cable (type A) into any active USB port of the computer.
3. Plug the AC power cord to the INLET of your INTEGRAL LAN enclosure and turn on the power switch. Your INTEGRAL LAN device is ready to use.

### Disconnect the INTEGRAL LAN Device

When disconnecting your INTEGRAL LAN drive from the computer, close all windows and quit all running applications that are stored on the USB2.0 External Drive and drag USB2.0 External Drive's icon into "Trash" to dismount it from the Desktop prior to unplugging the USB2.0 External Drive from the USB port.



## Network Connection Mode

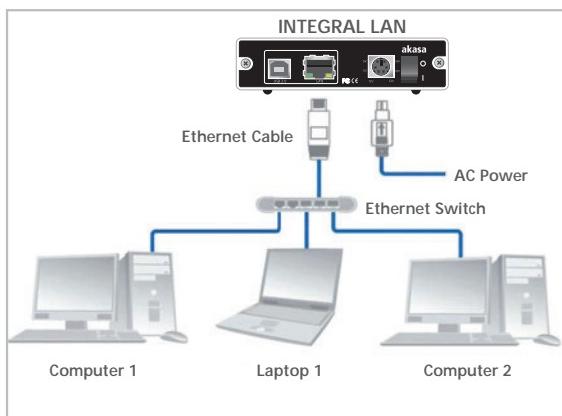
### Hardware installation

Connect INTEGRAL LAN to Network:

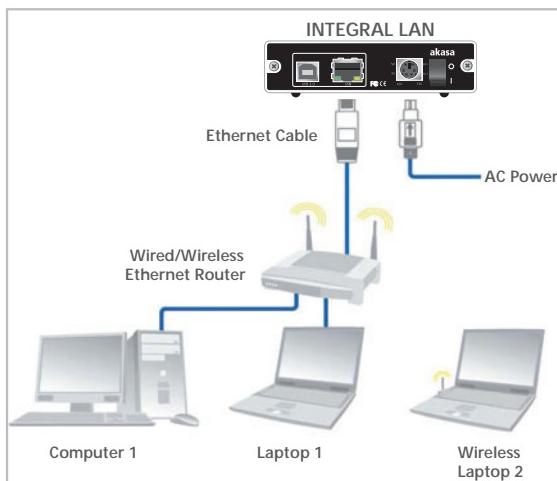
1. Connect one end of the included Ethernet cable to the Ethernet port on the INTEGRAL LAN and the other to a switch or router. (100 Base-T).
2. Make sure the power adaptor connector is firmly attached to the INTEGRAL LAN and to a power source.
3. Switch ON the INTEGRAL LAN.



**CAUTION! Do not connect USB cable and Ethernet cable at the same time.**



Ethernet Switch Example



Ethernet Router Setup Example

## Software installation

Installation of NDAS software is necessary to use the INTEGRAL LAN as a network drive. Installation of the software is simple and easy. Please insert the Installation CD into your CD-ROM drive and select the Drivers folder.



### STEP 1

Insert the INTEGRAL driver CD to your Mac.

### STEP 2

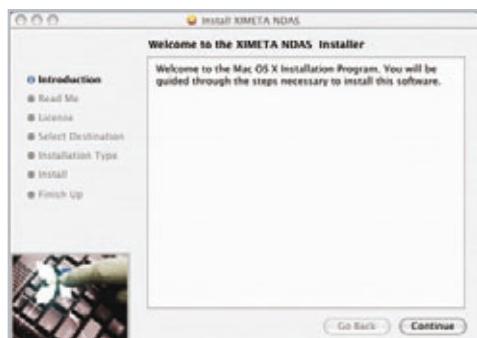
Click on the INTEGRAL DRIVER icon on the desktop and navigate to the the folder [p2l] and then the folder [mac].

### STEP 3

Select and click on the folder for your Mac OSX, select the Tiger driver for Mac OSX version 10.4 or the Panther driver for Mac OSX version 10.3.

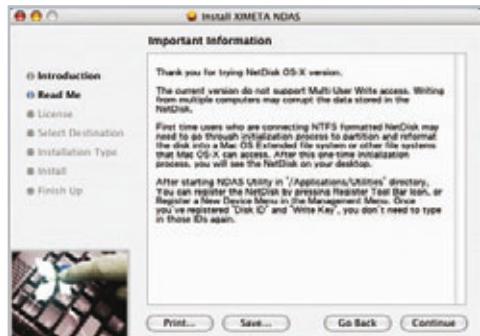
### STEP 4

Double click on [NDAS Install package] to launch the installation.



### STEP 5

Welcome to the Akasa INTEGRAL LAN installer  
Click Continue to start the installation.



## STEP 6

### Important

Please read the Important Information and Click Continue.

## STEP 7

### Software License Agreement

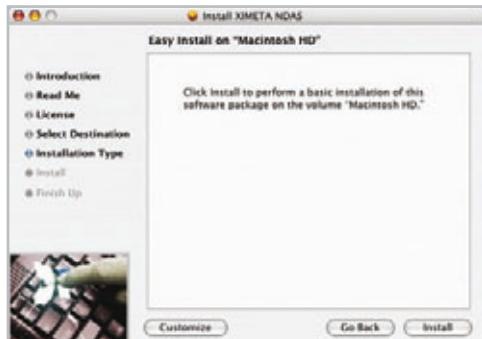
Click Continue and Agree to proceed with the installation or Disagree to cancel the installation.



## STEP 8

### Select Destination

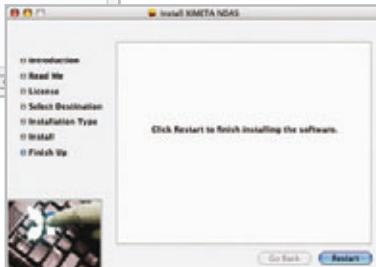
Select a harddrive volume to install the software and click Continue.

**STEP 9****Installation Type**

To perform a basic installation click **Install**.

**STEP 10  
Authenticate**

Enter the name with the Administrator right and password, then click **OK**.

**STEP 11**

Click **Continue Installation** followed by **restart** if you are ready to restart the computer.



### STEP 12

The NDAS utility is in **Applications -> Utilities** folder.

### STEP 13

Double click the **NDAS utility** to launch the administration application.



### STEP 14

Click on the new device icon on the top right hand corner to register the new NDAS disk drive.

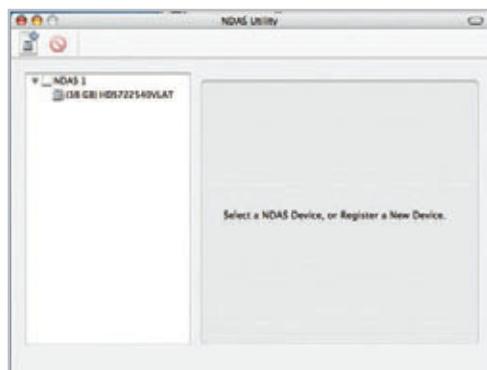


**STEP 15**

Type in the NDAS device name of your choice  
Enter the ID and Write Key that come with the INTEGRAL LAN. The ID and Write Key should have been noted from Step 2 of the hard disk installation.

**STEP 16**

After the device ID registration, the harddisk model appears on the left hand side panel and is available for configuration.



# Managing the INTEGRAL LAN disk

## Register/Unregister an INTEGRAL LAN enclosure



Click on the icon for registering a new LAN enclosure device



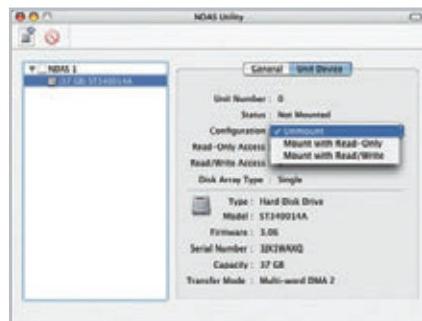
Click on the icon for unregistering an already registered LAN enclosure device

## Accessing the INTEGRAL LAN disk

The INTEGRAL LAN disk can be accessed as read only or read/write. In read only mode, any number of users or applications can read from the disk. In Read/Write mode, only one user or application can write to the disk at a time.

To change from read only mode to read/write, click on the menu in configuration and select read/write, and vice versa for changing from read/write to read only mode. The configuration menu allows unmounting of the disk.

Note: The Write Key is required during device registration for the read/write mode to work.



## Sharing the INTEGRAL LAN on a Network

Once INTEGRAL LAN drive is connected to your network, it can be accessed from any computer on your LAN.

To share your INTEGRAL LAN device, you need:

- All computers and INTEGRAL LAN drive to be on the same LAN
- INTEGRAL LAN device connected via Ethernet Router
- NDAS device must be registered onto each computer

The INTEGRAL LAN can be shared by a mixed of Windows 2000/XP and Mac computers. Multiple computer can have READ ONLY access simultaneously. WRITE ACCESS is assigned to one computer at a time and is passed from one computer to another. The disk file system format must be formatted in FAT32. The NTFS file system for windows 2000/XP is not a compatible file system for the Mac OS.

### **WARNING:**

DO NOT perform disk operations (format, partition and chkdsk) when the INTEGRAL LAN drive are mounted by multiple computers.

# Disk Partition/Formatting

## WARNING!!

Before you partition your hard disk, please be aware that this will destroy all your existing data on the drive, make sure you have backup your computer! This step is usually required the first time you install a new hard drive, or if you change the type of particular format or want to erase all data on your drive.

## Partition under Mac OS

Mac OS 9.2 and earlier does not support creating partitions on an external drive. To do that, you would need to purchase additional 3rd party software. Initializing is no problem on all Operating Systems.

### Mac OS X (Tiger or Panther):

The Disk Utility is used to format and create partitions on your external disk.

1. Select “Disk Utilities” in the utilities folder
2. Choose your external drive and format it according to your requirement

